Bifenazate Dietary Exposure Assessment DP Barcode: D293801

PC Code: 000586 Dietary Exposure Assessment DP Barcode: D293



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OPP OFFICIAL RECORD HEALTH EFFECTS DIVISION SCIENTIFIC DATA REVIEWS EPA SERIES 361

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

Date:

22-September-2003

Subject:

Bifenazate (000586). Chronic Dietary Exposure Assessment. ID#: 03WA35.

DB Barcode: D293801.

Reviewer:

Tom Bloem, Chemist

Registration Action Branch 1/Health Effects Division (RAB1/HED; 7509C)

Through:

Amelia Acierto, Chemist

David Hrdy, Biologist

Dietary Exposure Science Advisory Council (DES)

Dana Vogel, Acting Branch Senior Scientist

RAB1/HED (7509C)

To:

Mary Clock-Rust, Biologist

RAB1/HED (7509C)

Executive Summary

The Department of Agriculture for Washington and Oregon requested a Section 18 specific exemption for the application of bifenazate (hydrazinecarboxylic acid, 2-(4-methoxy-[1,1'-biphenyl]-3-yl), 1-methylethyl ester) to potatoes. A chronic dietary exposure analysis was conducted to access the dietary exposure resulting from all registered and proposed uses. Bifenazate has been classified as "not likely" to be a human carcinogen by any relevant route of exposure and an acute dietary endpoint was not identified for the general population including infants and children; therefore, acute dietary and cancer exposure assessments were not conducted.

A chronic dietary exposure analysis was conducted using the Dietary Exposure Evaluation Model - Food Commodity Intake DatabaseTM (DEEM-FCIDTM; ver. 1.30) program which incorporates consumption data from USDA's Continuing Surveys of Food Intakes by Individuals (CSFII), 1994-1996 and 1998. The chronic analysis assumed tolerance level residues and 100% crop treated for all registered and proposed crops excluding tomato where average field trial residues were used. DEEM (ver 7.73) default processing factors were assumed for all commodities excluding apple juice, grape juice, wine/sherry, tomato paste, and tomato puree. The processing factors for these commodities were reduced to 0.23, 0.17, 0.17, 5.0, and 5.0, respectively, based on data from bifenazate processing studies. The chronic dietary food exposure estimates to bifenazate were less than HED's level of concern (<100% cPAD) for the general US population and all population subgroups. The most highly exposed population was children 1-2 years old at 86% of the cPAD.

Bifenazate Dietary Exposure Assessment DP Barcode: D293801

PC Code: 000586 Page: 2 of 12

I. Introduction

Dietary risk assessment incorporates both exposure and toxicity of a given pesticide. For acute and chronic assessments, the risk is expressed as a percentage of a maximum acceptable dose (i.e., the dose which HED has concluded will result in no unreasonable adverse health effects). This dose is referred to as the population adjusted dose (PAD). The PAD is equivalent to the Reference Dose (RfD) divided by the FQPA Safety Factor(s).

For acute and non-cancer chronic exposures, HED is concerned when estimated dietary risk exceeds 100% of the PAD. References which discuss the acute and chronic risk assessments in more detail are available on the EPA/pesticides web site: "Available Information on Assessing Exposure from Pesticides, A User's Guide," 6/21/2000, web link: http://www.epa.gov/fedrgstr/EPA-PEST/2000/July/Day-12/6061.pdf; or see SOP 99.6 (8/20/99).

The most recent dietary risk assessment for bifenazate was conducted by Tom Bloem (29-May-2003, D290054).

II. Residue Information

Nature of the Residue - Plants: The MARC previously reviewed bifenazate apple, orange, and cotton metabolism studies and determined that for tolerance expression and risk assessment purposes, the residues of concern in these crops are bifenazate and D3598 (D276801, T. Bloem, 16-Aug-2001). Subsequent to this decision, the petitioner submitted and HED reviewed a radish metabolism study (D290053, T. Bloem, 29-May-2003). The metabolic route in radish was similar to that of apple, orange, and cotton with the major identified residues being bifenazate and D3598. Since the metabolic route in three diverse crops has been demonstrated to be similar, HED concludes that the nature of the residue in plants is adequately understood and the residues of concern for tolerance expression and risk assessment purposes are bifenazate and D3598.

Nature of the Residue - Livestock: The MARC reviewed goat and hen metabolism studies and determined that for tolerance expression and risk assessment purposes, the residues of concern in livestock tissue (excluding fat), eggs, and milk are bifenazate, D3598 (expressed as bifenazate), A1530, and A1530-sulfate (expressed as A1530). The residues of concern for tolerance expression and risk assessment purposes in fat are bifenazate and D3598 (expressed as bifenazate; D276801, T. Bloem, 16-Aug-2001).

Residue Data used for Chronic Dietary Exposure Assessment: Bifenazate is currently registered for application to numerous commodities (40 CFR 180.572). HED has reviewed the data submitted in conjunction with the current Section 18 and recommended for the establishment of a 0.05 ppm tolerance for the combined residues of bifenazate and D3598 in/on potato (D293801, M. Clock-Rust, memo in draft).

The chronic dietary exposure analysis assumed tolerance level residues and 100% crop treated for all registered and proposed crops, excluding tomato, where average field trial residues were used (0.19 ppm; 45772005.der.wpd). DEEM (ver 7.73) default processing factors were assumed for all commodities excluding apple juice, grape juice, wine/sherry, tomato paste, and tomato

Bifenazate Dietary Exposure Assessment

PC Code: 000586 Page: 3 of 12

DP Barcode: D293801

puree. The processing factors for these commodities were reduced to 0.23, 0.17,

III. DEEM-FCIDTM Program and Consumption Information

A bifenazate chronic dietary exposure assessment was conducted using DEEM-FCIDTM (Ver. 1.30), which incorporates consumption data from USDA's CSFII (1994-1996 and 1998). The 1994-96, 98 data are based on the reported consumption of more than 20,000 individuals over two non-consecutive survey days. Foods "as consumed" (e.g., apple pie) are linked to EPA-defined food commodities (e.g. apples, peeled fruit - cooked; fresh or N/S; baked; or wheat flour - cooked; fresh or N/S, baked) using publicly available recipe translation files developed jointly by USDA/ARS and EPA. For chronic exposure assessment, consumption data are averaged for the entire U.S. population and within population subgroups. Based on analysis of the 1994-96, 98 CSFII consumption data, which took into account dietary patterns and survey respondents, HED concluded that it is most appropriate to report risk for the following population subgroups: the general U.S. population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, adults 20-49, females 13-49, and adults 50+ years old.

For chronic dietary exposure assessment, an estimate of the residue level in each food or food-form (e.g., orange or orange juice) on the food commodity residue list is multiplied by the average daily consumption estimate for that food/food form. The resulting residue consumption estimate for each food/food form is summed with the residue consumption estimates for all other food/food forms on the commodity residue list to arrive at the total average estimated exposure. Exposure is expressed in mg/kg body weight/day and as a percent of the cPAD. This procedure is performed for each population subgroup.

Bifenazate Dietary Exposure Assessment DP Barcode: D293801

PC Code: 000586 Page: 4 of 12

IV. Toxicological Information

The HED Hazard Identification Assessment Review Committee (HIARC) met on four occasions to examine the toxicology database for bifenazate and to determine the appropriate toxicological endpoints for dietary and occupational/residential exposure assessment (meeting date - 21-Aug-2001, 24-Apr-2001, 13-Apr-1999, and 4-Feb-1999). The HIARC along with the HED Food Quality Protection Act Safety Factor Committee (FQPA SFC) evaluated the bifenazate toxicological database in reference to the potential for enhanced sensitivity to infants and children. The decisions made by the FQPA SFC are in accordance with the current 2002 OPP 10X Guidance Document. Based on the conclusions made by the HIARC and FQPA-SFC committee, the complete residue chemistry and environmental fate databases, and the conservative assumptions used when generating the dietary and residential exposure estimates, HED concludes that the special FQPA SF should be reduced to 1x.

Bifenazate has been classified as "not likely" to be a human carcinogen by any relevant route of exposure and an acute dietary endpoint was not identified for the general population including infants and children; therefore, acute dietary and cancer exposure assessments were not conducted. Since the HIARC did not assign any additional uncertainty factors (UF) to the endpoints selected for the various routes of exposure assessment and since the special FQPA SF has been reduced to 1x, the total UF for all exposure assessments is 100x (10x for interspecies extrapolation, and 10x for intraspecies variation).

Table 1. Summary of Toxicological Doses and Endpoints for Bifenazate for Use in Dietary Exposure Assessment

Exposure Scenario	Dose Used in Risk Assessment, UF	Special FQPA SF and Level of Concern for Risk Assessment	Study and Toxicological Effects
Acute Dietary; general pop. and females 13-50 years old	An acute dietary endpoint wa single dose.	s not selected based on the abse	nce of an appropriate endpoint attributed to a
Chronic Dietary; all populations	NOAEL 1 = 1.0 mg/kg/day UF = 100 cRfD 3 = 0.01 mg/kg/day	FQPA SF = 1X $cPAD^4 = 0.01 \text{ mg/kg/day}$	LOAEL ² = 8.9/10.4 mg/kg/day [M/F] based on changes in hematological and clinical chemistry parameters, and histopathology in bone marrow, liver, and kidney in the One Year Dog Feeding Study
Cancer (oral, dermal, inhalation)	bifenazate is classified as "no	t likely" to be a human carcinog	en

NOAEL = no observable effect level

LOAEL = lowest observable adverse effect level

UF = uncertainty factor; 10x for interspecies and 10x for intraspecies

 $^{^{4}}$ cPAD = NOAEL \div (UF * FQPA SF) = 1.0 mg/kg/day \div (100*1) = 0.01 mg/kg/day

Bifenazate PC Code: 000586 Dietary Exposure Assessment

DP Barcode: D293801 Page: 5 of 12

V. Results/Discussion

As stated above, HED is concerned when dietary risk exceeds 100% of the cPAD. The DEEM-FCIDTM analyses estimate the dietary exposure of the U.S. population and various population subgroups. The results reported in Table 2 are for the general U.S. Population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, females 13-49, adults 20-49, and adults 50+ years.

Table 2. Summary of Dietary Exposure and Risk for Bifenazate

	Chronic Dietary				
Population Subgroup	Dietary Exposure (mg/kg/day)	% cPAD			
U.S. Population (total)	0.002491	25			
All Infants (< 1 year old)	0.005975	60			
Children 1-2 years old	0.008642	86			
Children 3-5 years old	0.006629	66			
Children 6-12 years old	0.003663	37			
Youth 13-19 years old	0.001796	18			
Adults 20-49 years old	0.001764	18			
Adults 50+ years old	0.001845	18			
Females 13-49 years old	0.001696	17			

Bifenazate PC Code: 000586 Dietary Exposure Assessment

DP Barcode: D293801

Page: 6 of 12

VI. Characterization of Inputs/Outputs

DEEM-FCIDTM (ver. 1.30) does not contain any default processing factors and as such, HED inserts, where appropriate, the default processing factors from DEEMTM (ver. 7.76) into the DEEM-FCIDTM (ver. 1.30) residue files. There are several processed commodities in the DEEM-FCIDTM bifenazate residue list (almond oil, filbert oil, and dried pepper (bell and nonbell)) which were not in DEEMTM (ver 7.76). For these commodities, a processing factor of 1 was assumed. Despite this, HED concludes that the chronic exposure estimates are conservative due to the likely low consumption of these commodities relative to the consumption of the remaining commodities in the bifenazate residue file (fruiting vegetables, pome fruit, cucurbit vegetables) and due to the conservative residue estimates used in the chronic analysis (tolerance level residues and 100 % crop treated).

VII. **Conclusions**

A chronic dietary exposure analyses was conducted using the DEEM-FCIDTM (ver. 1.30) program which incorporates consumption data from USDA's CSFII, 1994-1996 and 1998. The chronic analysis assumed tolerance level residues and 100% crop treated for all registered and proposed crops, excluding tomato, where average field trial residues were used. DEEM (ver 7.73) default processing factors were assumed for all commodities excluding apple juice, grape juice, wine/sherry, tomato paste, and tomato puree. The processing factors for these commodities were reduced to 0.23, 0.17, 0.17, 5.0, and 5.0, respectively, based on data from bifenazate processing studies. The chronic dietary food exposure estimates to bifenazate were less than HED's level of concern (<100% cPAD) for the general US population and all population subgroups. The most highly exposed population was children 1-2 years old at 86% of the cPAD.

Attachment 1: Chronic Dietary Exposure Estimates

Attachment 2: Chronic Residue File

cc: Tom Bloem (RAB1/HED)

T. Bloem:CM#2:806-R:703-605-0217:7509C

DP Barcode: D293801 Bifenazate Dietary Exposure Assessment

Page: 7 of 12 PC Code: 000586

Attachment 1: Chronic Dietary Exposure Estimates

U.S. Environmental Protection Agency Ver. 1.30 DEEM-FCID Chronic analysis for BIFENAZATE (1994-98 data)

Residue file name: C:\bloem\bifenazate\Section 18 potato\000586c.R98

Adjustment factor #2 NOT used.

Reference dose (RfD, Chronic) = .01 mg/kg bw/day

COMMENT 1: no acute endpoint identified; FQPA SF of 1x

Total exposure by population subgroup

	Total Exposure		
Population Subgroup	mg/kg body wt/day	Percent of Rfd	
U.S. Population (total)	0.002491	24.9%	
U.S. Population (spring season) U.S. Population (summer season) U.S. Population (autumn season) U.S. Population (winter season)	0.002563 0.002877 0.002288 0.002227	25.6% 28.8% 22.9% 22.3%	
Northeast region Midwest region Southern region Western region	0.002598 0.002538 0.002201 0.002802	26.0% 25.4% 22.0% 28.0%	
Hispanics Non-hispanic whites Non-hispanic blacks Non-hisp/non-white/non-black	0.002774 0.002486 0.002116 0.002954	27.7% 24.9% 21.2% 29.5%	
All infants (< 1 year) Nursing infants Non-nursing infants Children 1-6 yrs Children 7-12 yrs	0.005975 0.003713 0.006834 0.007047 0.003401	59.8% 37.1% 68.3% 70.5% 34.0%	
Females 13-19 (not preg or nursing) Females 20+ (not preg or nursing) Females 13-50 yrs Females 13+ (preg/not nursing) Females 13+ (nursing)	0.001713 0.001731 0.001894 0.002259 0.002584	17.1% 17.3% 18.9% 22.6% 25.8%	
Males 13-19 yrs Males 20+ yrs Seniors 55+	0.001877 0.001838 0.001884	18.8% 18.4% 18.8%	
Children 1-2 yrs Children 3-5 yrs Children 6-12 yrs Youth 13-19 yrs Adults 20-49 yrs Adults 50+ yrs Females 13-49 yrs	0.008642 0.006629 0.003663 0.001796 0.001764 0.001845 0.001696	86.4% 66.3% 36.6% 18.0% 17.6% 18.4%	

Bifenazate DP Barcode: D293801 Dietary Exposure Assessment

PC Code: 000586 Page: 8 of 12

Attachment 2: Chronic Residue File

Filename: C:\bloem\bifenazate\Section 18 potato\000586c.R98Chemical: bifenazate RfD(Chronic): .01 mg/kg bw/day NOEL(Chronic): 0 mg/kg bw/day RfD(Acute): 0 mg/kg bw/day NOEL(Acute): 0 mg/kg bw/day Date created/last modified: 09-22-2003/08:58:18/8 Program ver. 1.30 Comment: no acute endpoint identified; FQPA SF of 1x

Comment:	no acute endpoint identified; FQPA S	SF of 1x			
EPA Code	Grp Commodity Name	Def Res (ppm)	Adj.Fa	#2	Comment
	O Cottonseed, oil Full comment: 0F06108, res chem - I	0.750000			0F0610
95001281		0.750000	1.000	1.000	OF0610
95001750		0.750000	1.000	1.000	0F0610
95001760	O Grape, juice Full comment: 0F06108, res chem - I	0.750000	0.170	1.000	0F0610
95001761	O Grape, juice-babyfood Full comment: 0F06108, res chem - I	0.750000	0.170	1.000	0F0610
95001770		0.750000	1.000	1.000	0F0610
95001780	O Grape, raisin Full comment: 0F06108, res chem - I	1.200000	1.000	1.000	0F0610
95001790		0.750000	0.170	1.000	0F0610
95001880		15.000000	1.000	1.000	0F0610
95002750	O Peppermint Full comment: 3E06517; res chem - I	25.000000	1.000	1.000	3E0651
95002760		25.000000	1.000	1.000	3E0651
95003520		25.000000	1.000	1.000	3E0651
95003530		25.000000	1.000	1.000	3E0651
95003590		1.500000	1.000	1.000	0F0610
95003591	O Strawberry-babyfood Full comment: 0F06108, res chem - I	1.500000	1.000	1.000	0F0610
95003600		1.500000	1.000	1.000	0F0610
95003601		1.500000	1.000	1.000	0F0610
21000440		0.020000	1.000	1.000	3E0651
21000441		0.020000	1.000	1.000	3E0651
21000450		0.020000	1.920	1.000	3E0651
21000460	M Beef, meat byproducts Full comment: 3E06517, res chem - I	0.020000	1.000	1.000	3E0651
21000461		0.020000	1.000	1.000	3E0651
21000470	M Beef, fat Full comment: 0F06108, res chem - E	0.100000 0277089	1.000	1.000	0F0610
21000471		0.100000	1.000	1.000	0F0610
21000480	<pre>M Beef, kidney Full comment: 3E06517, res chem - D</pre>	0.020000	1.000	1.000	3E0651
21000490	M Beef, liver Full comment: 3E06517, res chem - D	0.020000	1.000	1.000	3E0651
21000491	M Beef, liver-babyfood Full comment: 3E06517, res chem - D	0.020000	1.000	1.000	3E0651
23001690	<pre>M Goat, meat Full comment: 3E06517, res chem - D</pre>	0.020000 0290054	1.000	1.000	3E0651

Bifenazate PC Code: 000586	Dietary Exposure Assessment		DP Barcode: D293801 Page: 9 of 12		
23001700 M	Goat, meat byproducts 0.020000	1.000	1.000	3E0651	
Full	l comment: 3E06517, res chem - D290054				
	l comment: 0F06108, res chem - D277089	1.000	1.000	0F0610	
	Goat, kidney 0.020000 l comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
23001730 M Full	Goat, liver 0.020000 l comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
24001890 M Full	Horse, meat 0.020000 comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
28002210 M	Meat, game 0.020000 L comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
25002900 M	Pork, meat 0.020000 comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
25002901 M	Pork, meat-babyfood 0.020000 L comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
25002910 M	Pork, skin 0.100000	1.000	1.000	3E0651	
25002920 M	Comment: 3E06517, res chem - D290054 Pork, meat byproducts 0.020000	1.000	1.000	3E0651	
25002921 M	l comment: 3E06517, res chem - D290054 Pork, meat byproducts-babyfood 0.020000	1.000	1.000	3E0651	
25002930 M	l comment: 3E06517, res chem - D290054 Pork, fat 0.100000	1.000	1.000	0F0610	
	l comment: 0F06108, res chem - D277089 Pork, fat-babyfood 0.100000	1.000	1.000	0F0610	
Full 25002940 M	l comment: 0F06108, res chem - D277089 Pork, kidney 0.020000	1.000	1.000	3E0651	
Full 25002950 M	l comment: 3E06517, res chem - D290054 Pork, liver 0.020000	1.000	1.000	3E0651	
	l comment: 3E06517, res chem - D290054 Rabbit, meat 0.020000	1.000	1.000	3E0651	
	l comment: 3E06517, res chem - D290054 Sheep, meat 0.020000	1.000	1.000	3E0651	
	L comment: 3E06517, res chem - D290054 Sheep, meat-babyfood 0.020000	1.000	1.000	3E0651	
	L comment: 3E06517, res chem - D290054 Sheep, meat byproducts 0.020000	1.000	1.000	3E0651	
Full	L comment: 3E06517, res chem - D290054				
	Sheep, fat 0.100000 L comment: 0F06108, res chem - D277089	1.000	1.000	0F0610	
	Sheep, fat-babyfood 0.100000 Comment: 0F06108, res chem - D277089	1.000	1.000	0F0610	
26003420 M Full	Sheep, kidney 0.020000 L comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
26003430 M Full	Sheep, liver 0.020000 L comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
27002220 D Full	Milk, fat 0.500000 comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
27002221 D Full	Milk, fat - baby food/infant for 0.500000 comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
27012230 D	Milk, nonfat solids 0.020000 comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
27012231 D	Milk, nonfat solids-baby food/in 0.020000 comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
27022240 D	Milk, water 0.020000 L comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
27022241 D	Milk, water-babyfood/infant form 0.020000 comment: 3E06517, res chem - D290054	1.000	1.000	3E0651	
27032251 D	Milk, sugar (lactose)-baby food/ 0.020000	1.000	1.000	3E0651	
01032960 1C	Potato, chips Ocument: 3E06517, res chem - D290054 Potato, chips Ocument: Section 18 03WA35 and 03OR33	6.500	1.000	Sectio	
01032970 1C	comment: Section 18 03WA35 and 03OR33 Potato, dry (granules/ flakes) 0.050000	6.500	1.000	Sectio	
01032971 1C	comment: Section 18 03WA35 and 03OR33 Potato, dry (granules/flakes)-b 0.050000	6.500	1.000	Sectio	
01032980 1C	comment: Section 18 03WA35 and 03OR33 Potato, flour 0.050000	6.500	1.000	Sectio	
01032981 1C	comment: Section 18 03WA35 and 03OR33 Potato, flour-babyfood 0.050000	6.500	1.000	Sectio	

Bifenazate Dietary Exposure Assessment DP Barcode: D293801 PC Code: 000586 Page: 10 of 12

10 0000					1 450. 1	0 01 12
E.11		02547025	- 1 020022			
01032990 1C Potat	ment: Section 18 to, tuber, w/peel	L	0.050000	1.000	1.000	Sectio
01032991 1C Potat		l-babyfood	0.050000	1.000	1.000	Sectio
01033000 1C Potat		eel	0.050000	1.000	1.000	Sectio
01033001 1C Potat	ment: Section 18 co, tuber, w/o penent: Section 18	eel-babyfo	0.050000	1.000	1.000	Sectio
08001480 8 Eggpl			2.000000	1.000	1.000	3E0651
08002340 8 Okra	ment: 3E06517; re		2.000000	1.000	1.000	3E0651
08002700 8 Peppe	er, bell ment: 3E06517; re		2.000000	1.000	1.000	3E0651
08002701 8 Peppe		Ė	2.000000	1.000	1.000	3E0651
08002710 8 Peppe	er, bell, dried ment: 3E06517; re		2.000000	1.000	1.000	3E0651
Full comm	er, bell, dried-k ment: 3E06517; re	oabyfood es chem -	2.000000 D290054	1.000	1.000	3E0651
	ent: 3E06517; re			1.000	1.000	3E0651
Full comm	er, nonbell-babyi ment: 3E06517; re	es chem -		1.000	1.000	3E0651
	ent: 3E06517; re		D290054	1.000	1.000	3E0651
	nent: 3E06517; re	es chem -		1.000	1.000	3E0651
08003750 8 Tomat Full comm	nent: 3E06517; re			1.000	1.000	3E0651
	nent: 3E06517; re			1.000	1.000	3E0651
Full comm	o, paste ment: 3E06517; re			5.000	1.000	3E0651
Full comm	o, paste-babyfoonent: 3E06517; re	es chem -		5.000	1.000	3E0651
Full comm	o, puree ment: 3E06517; re			5.000	1.000	3E0651
	o, puree-babyfoo ent: 3E06517; re		0.190000 D290054 0.190000	5.000	1.000	3E0651
	ent: 3E06517; re	es chem -	D290054	14.300	1.000	3E0651 3E0651
Full comm	ent: 3E06517; re	es chem -	D290054 0.190000	1.500	1.000	3E0651
Full comm	ent: 3E06517; re m pear	es chem -		1.000	1.000	3E0651
Full comm	ment: 3E06517; re loupe	es chem -		1.000	1.000	3E0651
	ent: 3E06517; re	es chem -		1.000	1.000	3E0651
Full comm	ent: 3E06517; re	es chem -		1.000	1.000	3E0651
Full comm	ment: 3E06517; resesse waxgourd	es chem -		1.000	1.000	3E0651
	ent: 3£06517; re	es chem -		1.000	1.000	3E0651
	ent: 3E06517; redew melon	es chem -		1.000	1.000	3E0651
	ent: 3E06517; re	es chem -		1.000	1.000	3E0651
09023090 9B Pumpk	ent: 3E06517; re in, seed		0.750000	1.000	1.000	3E0651
09023560 9B Squas	ent: 3E06517; re h, summer		0.750000	1.000	1.000	3E0651
09023561 9B Squas	ent: 3E06517; re h, summer-babyfo	ood	0.750000	1.000	1.000	3E0651
Full comm	ent: 3E06517; re	s chem -	D290054			

Bifenazate PC Code: 000586	Dietary Exposure Assessment				DP Barcode: D293801 Page: 11 of 12	
09023570 9B Full	Squash, winter comment: 3E06517; res	chem -	0.750000 D290054	1.000	1.000	3E0651
09023571 9B	Squash, winter-babyfood comment: 3E06517; res	i	0.750000	1.000	1.000	3E0651
09013990 9A	Watermelon comment: 3E06517; res		0.750000	1.000	1.000	3E0651
09014000 9A	Watermelon, juice comment: 3E06517; res		0.750000	1.000	1.000	3E0651
11000070 11	Apple, fruit with peel		0.750000	1.000	1.000	0F0610
11000080 11	comment: 0F06108, res Apple, peeled fruit		0.750000	1.000	1.000	0F0610
11000081 11	comment: 0F06108, res Apple, peeled fruit-bak	oyfood	0.750000	1.000	1.000	0F0610
11000090 11	comment: 0F06108, res Apple, dried		0.750000	8.000	1.000	0F0610
	comment: 0F06108, res Apple, dried-babyfood	chem -	D277089 0.750000	8.000	1.000	0F0610
	comment: 0F06108, res Apple, juice	chem -	D277089 0.750000	0.230	1.000	0F0610
Full 11000101 11	comment: 0F06108, res Apple, juice-babyfood	chem -	D277089 0.750000	0.230	1.000	0F0610
Full	comment: 0F06108, res Apple, sauce	chem -		1.000	1.000	0F0610
Full	comment: 0F06108, res Apple, sauce-babyfood		D277089	1.000	1.000	0F0610
Full	comment: 0F06108, res Crabapple			1.000	1.000	0F0610
Full	comment: 0F06108, res	chem -	D277089			
Full	Loquat comment: 0F06108, res	chem -		1.000	1.000	0F0610
	Pear .comment: 0F06108, res	chem -		1.000	1.000	0F0610
	Pear-babyfood comment: 0F06108, res	chem -	0.750000 D277089	1.000	1.000	0F0610
	Pear, dried comment: 0F06108, res	chem -	0.750000 D277089	6.250	1.000	0F0610
11002680 11 Full	Pear, juice comment: 0F06108, res	chem -	0.750000 D277089	1.000	1.000	0F0610
11002681 11	Pear, juice-babyfood comment: 0F06108, res		0.750000	1.000	1.000	0F0610
11003100 11	Quince comment: 0F06108, res		0.750000	1.000	1.000	0F0610
12002300 12	Nectarine comment: 0F06108, res		1.700000	1.000	1.000	0F0610
12002600 12	Peach comment: 0F06108, res		1.700000	1.000	1.000	0F0610
12002601 12	Peach-babyfood		1.700000	1.000	1.000	0F0610
12002610 12	comment: 0F06108, res		1.700000	7.000	1.000	0F0610
12002611 12	comment: 0F06108, res Peach, dried-babyfood		1.700000	7.000	1.000	0F0610
12002620 12	comment: 0F06108, res Peach, juice		1.700000	1.000	1.000	0F0610
	comment: 0F06108, res Peach, juice-babyfood	chem -	D277089 1.700000	1.000	1.000	0F0610
Full 12002850 12	comment: 0F06108, res	chem -	D277089 0.300000	1.000	1.000	0F0610
Full 12002851 12	comment: 0F06108, res Plum-babyfood	chem -	D277089 0.300000	1.000	1.000	0F0610
	comment: 0F06108, res Plum, prune, fresh	chem -		1.000	1.000	0F0610
Full	. comment: 0F06108, res Plum, prune, fresh-baby			1.000	1.000	0F0610
Full	comment: 0F06108, res Plum, prune, dried			5.000	1.000	0F0610
Full	comment: 0F06108, res Plum, prune, dried-baby			5.000	1.000	0F0610
Full	comment: 0F06108, res Plum, prune, juice			1.400	1.000	0F0610
12002000 IZ	ram, prane, jurce		0.300000	1.400	1.000	OFOOTO

Bifenazate PC Code: 0	Dietary Exposure Assessment		DP Barce Page: 12	ode: D293801 c of 12
	Full comment: 0F06108, res chem - D277089			
12002881	12 Plum, prune, juice-babyfood 0.300	000 1.400	1.000	0F0610
	Full comment: 0F06108, res chem - D277089			
14000030		000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			
14000031		000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			
14000040		000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			
14000041	· · · · · · · · · · · · · · · · · · ·	000 1.000	1.000	3E0651
4.000500	Full comment: 3E06517; res chem - D290054			
14000590	14 Brazil nut 0.2000	000 1.000	1.000	3E0651
14000600	Full comment: 3E06517; res chem - D290054	000 1 000	1 000	270651
14000680	14 Butternut 0.2000	000 1.000	1.000	3E0651
14000810	Full comment: 3E06517; res chem - D290054 14 Cashew 0.200	000 1.000	1.000	3E0651
14000010	Full comment: 3E06517; res chem - D290054	000 1.000	1.000	250021
14000920	14 Chestnut 0.200	000 1.000	1.000	3E0651
14000020	Full comment: 3E06517; res chem - D290054	000 1.000	1.000	250021
14001550	14 Filbert 0.2000	000 1.000	1.000	3E0651
21001000	Full comment: 3E06517; res chem - D290054	1.000	1.000	320001
14001560	14 Filbert, oil 0.2000	000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			
14001850		000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			
14002130	14 Macadamia nut 0.2000	000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			
14002690		000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			
14002820	14 Pistachio 0.2000	000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			
14003910		000 1.000	1.000	3E0651
	Full comment: 3E06517; res chem - D290054			